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<110> Weiss, Anthony S.

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Val	Leu	Gly	Gly	Leu	Gly	Ala	Leu	Gly	Gly	Val	Gly	Ile	Pro	Gly	Gly	
	610					615					620					
Val	Val	Gly	Ala	Gly	Pro	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Lys	Ala	Ala	
625					630				635						640	
Ala	Lys	Ala	Ala	Gln	Phe	Gly	Leu	Val	Gly	Ala	Ala	Gly	Leu	Gly	Gly	
				645					650					655		
Leu	Gly	Val	Gly	Gly	Leu	Gly	Val	Pro	Gly	Val	Gly	Gly	Leu	Gly	Gly	
			660					665					670			
Ile	Pro	Pro	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Lys	Tyr	Gly	Ala	Ala	Gly	
		675					680					685				

Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val
690 695 700

Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala
705 710 715 720

Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys
725 730

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<400> 5

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe
1 5 10 15

Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro
20 25 30

Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
35 40 45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala
50 55 60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala
65 70 75 80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly
85 90 95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro
100 105 110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val
115 120 125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro
130 135 140

Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe
 145 150 155 160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val
 165 170 175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly
 180 185 190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly
 195 200 205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val
 210 215 220

Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe
 225 230 235 240

Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val
 245 250 255

Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val
 260 265 270

Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
 275 280 285

Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly
 290 295 300

Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val
 305 310 315 320

Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala
 325 330 335

Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala
 340 345 350

Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile
 355 360 365

Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly
370 375 380

Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val
385 390 395 400

Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln
405 410 415

Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala
420 425 430

Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
435 440 445

Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
450 455 460

Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
465 470 475 480

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly
485 490 495

Gly Val Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
500 505 510

Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly
515 520 525

Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly
530 535 540

Leu Gly Val Gly Ala Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala
545 550 555 560

Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly Val
565 570 575

Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly Val
580 585 590

Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala
595 600 605

Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu
610 615 620

Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly Ile
625 630 635 640

Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly Leu
645 650 655

Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val Ala
660 665 670

Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys
675 680 685

Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys
690 695

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<212> PRT
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<400> 6

Met Gly Gly Val Pro Gly Ala Val Pro Gly Gly Val Pro Gly Gly Val
1 5 10 15

Phe Tyr Pro Gly Ala Gly Phe Gly Ala Val Pro Gly Gly Val Ala Asp
20 25 30

Ala Ala Ala Ala Tyr Lys Ala Ala Lys Ala Gly Ala Gly Leu Gly Gly
35 40 45

Val Pro Gly Val Gly Gly Leu Gly Val Ser Ala Gly Ala Val Val Pro
50 55 60

Gln Pro Gly Ala Gly Val Lys Pro Gly Lys Val Pro Gly Val Gly Leu
65 70 75 80

Pro Gly Val Tyr Pro Gly Phe Gly Ala Val Pro Gly Ala Arg Phe Pro
85 90 95

Gly Val Gly Val Leu Pro Gly Val Pro Thr Gly Ala Gly Val Lys Pro
100 105 110

Lys Ala Pro Gly Val Gly Gly Ala Phe Ala Gly Ile Pro Gly Val Gly
115 120 125

Pro Phe Gly Gly Pro Gln Pro Gly Val Pro Leu Gly Tyr Pro Ile Lys
130 135 140

Ala Pro Lys Leu Pro Gly Gly Tyr Gly Leu Pro Tyr Thr Thr Gly Lys
145 150 155 160

Leu Pro Tyr Gly Tyr Gly Pro Gly Gly Val Ala Gly Ala Ala Gly Lys
165 170 175

Ala Gly Tyr Pro Thr Gly Thr Gly Val Gly Pro Gln Ala Ala Ala Ala
180 185 190

Ala Ala Ala Lys Ala Ala Ala Lys Phe Gly Ala Gly Ala Ala Gly Phe
195 200 205

Gly Ala Val Pro Gly Val Gly Gly Ala Gly Val Pro Gly Val Pro Gly
210 215 220

Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val Gly Thr Pro Ala Ala
225 230 235 240

Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala
245 250 255

Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly Pro Gly Val Val Gly
260 265 270

Val Pro Gly Phe Gly Ala Val Pro Gly Val Gly Val Pro Gly Ala Gly
275 280 285

Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala Ala Gly Phe Gly

290		295		300
Ala Val Ser Pro Glu	Ala Ala Lys Ala	Ala Ala Lys Ala	Ala Lys	Lys
305	310	315		320
Tyr Gly Ala Arg	Pro Gly Val Gly	Val Gly Gly Ile	Pro Thr Tyr	Gly
	325	330	335	
Val Gly Ala Gly	Gly Phe Pro Gly	Phe Gly Val Gly	Val Gly Gly Ile	
	340	345	350	
Pro Gly Val Ala	Gly Val Pro Ser	Val Gly Gly Val	Pro Gly Val Gly	
	355	360	365	
Gly Val Pro Gly	Val Gly Ile Ser	Pro Glu Ala Gln	Ala Ala Ala Ala	
	370	375	380	
Ala Lys Ala Ala	Lys Tyr Gly Val	Gly Thr Pro Ala	Ala Ala Ala Ala	
385	390	395	400	
Lys Ala Ala Ala	Lys Ala Ala Gln	Phe Gly Leu Val	Pro Gly Val Gly	
	405	410	415	
Val Ala Pro Gly	Val Gly Val Ala	Pro Gly Val Gly	Val Ala Pro Gly	
	420	425	430	
Val Gly Leu Ala	Pro Gly Val Gly	Val Ala Pro Gly	Val Gly Val Ala	
	435	440	445	
Pro Gly Val Gly	Val Ala Pro Gly	Gly Ile Gly Pro	Gly Gly Val Ala	
	450	455	460	
Ala Ala Lys Ser	Ala Ala Lys Val	Ala Ala Lys Ala	Gln Leu Arg Ala	
465	470	475	480	
Ala Ala Gly Leu	Gly Ala Gly Ile	Pro Gly Leu Gly	Val Gly Val Gly	
	485	490	495	
Val Pro Gly Leu	Gly Val Gly Ala	Gly Val Pro Gly	Leu Gly Val Gly	
	500	505	510	

Ala Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala Leu Ala Ala Ala
515 520 525

Lys Ala Ala Lys Tyr Gly Ala Val Pro Gly Val Leu Gly Gly Leu Gly
530 535 540

Ala Leu Gly Gly Val Gly Ile Pro Gly Gly Val Val Gly Ala Gly Pro
545 550 555 560

Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe
565 570 575

Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu Gly Val Gly Gly Leu
580 585 590

Gly Val Pro Gly Val Gly Gly Leu Gly Gly Ile Pro Pro Ala Ala Ala
595 600 605

Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly Leu Gly Gly Val Leu Gly
610 615 620

Gly Ala Gly Gln Phe Pro Leu Gly Gly Val Ala Ala Arg Pro Gly Phe
625 630 635 640

Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys Leu Gly Lys Ala Cys
645 650 655

Gly Arg Lys Arg Lys
660

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<212> PRT
<213> Homo sapiens

<400> 7

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe
1 5 10 15

Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro
20 25 30

Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
 35 40 45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala
 50 55 60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala
 65 70 75 80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly
 85 90 95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro
 100 105 110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val
 115 120 125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro
 130 135 140

Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe
 145 150 155 160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val
 165 170 175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly
 180 185 190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly
 195 200 205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val
 210 215 220

Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe
 225 230 235 240

Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val
 245 250 255

Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val
260 265 270

Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
275 280 285

Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly
290 295 300

Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val
305 310 315 320

Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala
325 330 335

Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala
340 345 350

Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile
355 360 365

Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly
370 375 380

Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val
385 390 395 400

Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln
405 410 415

Ala Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala
420 425 430

Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
435 440 445

Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
450 455 460

Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
465 470 475 480

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly
485 490 495

Gly Val Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
500 505 510

Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly
515 520 525

Val Gly Val Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly
530 535 540

Leu Gly Val Gly Ala Gly Cys Ser Gly Phe Arg Cys Trp Arg Gly Arg
545 550 555 560

Arg Cys Thr Ser Phe Pro Val Ser Arg Thr Ala
565 570

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<212> PRT
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<400> 8

Lys Ala Pro Gly Val Gly Gly Ala Phe
1 5

<210> 9
<211> 7
<212> PRT
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<400> 9

Arg Ala Ala Ala Gly Leu Gly
1 5

<210> 10
<211> 11
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<400> 10

Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp
1 5 10

<210> 11
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<400> 11

Lys Ala Ala Lys Ala Gly Ala Gly Leu
1 5

<210> 12
<211> 9
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<400> 12

Lys Ala Gly Ala Gly Leu Gly Gly Val
1 5

<210> 13
<211> 13
<212> PRT
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<400> 13

Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala
1 5 10

<210> 14
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<212> PRT
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<400> 14

Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val
1 5 10

<210> 15
<211> 11
<212> PRT
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<400> 15

Lys Ser Ala Ala Lys Val Ala Ala Lys Ala Gln
1 5 10

<210> 16
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<400> 16

Arg Ser Leu Ser Pro Glu Leu Arg Glu
1 5

<210> 17
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<400> 17

Gly Gln Leu Arg Ala Ala Ala Gly
1 5

<210> 18
<211> 8
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<400> 18

Val Gln Leu Arg Ala Ala Ala Gly
1 5

<210> 19
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<400> 19

Ile Gln Leu Arg Ala Ala Ala Gly
1 5

<210> 20
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<400> 20

Leu Gln Leu Arg Ala Ala Ala Gly
1 5

<210> 21
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<400> 21

Ala Asn Leu Arg Ala Ala Ala Gly
1 5

<210> 22
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<400> 22

Ala Gly Leu Arg Ala Ala Ala Gly
1 5

<210> 23
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<400> 23

Ala Val Leu Arg Ala Ala Ala Gly
1 5

<210> 24
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<400> 24

Ala Ser Leu Arg Ala Ala Ala Gly
1 5

<210> 25
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<400> 25

Ala Gln Gly Arg Ala Ala Ala Gly
1 5

<210> 26
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<400> 26

Ala Gln Val Arg Ala Ala Ala Gly
1 5

<210> 27
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<400> 27

Ala Gln Ile Arg Ala Ala Ala Gly
1 5

<210> 28
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<400> 28

Ala Gln Ala Arg Ala Ala Ala Gly
1 5

<210> 29
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<400> 29

Ala Gln Leu Arg Gly Ala Ala Gly
1 5

<210> 30
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<400> 30

Ala Gln Leu Arg Val Ala Ala Gly
1 5

<210> 31
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Ala Gln Leu Arg Ile Ala Ala Gly
1 5

<210> 32
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<400> 32

Ala Gln Leu Arg Leu Ala Ala Gly
1 5

<210> 33
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<400> 33

Ala Gln Leu Arg Ala Gly Ala Gly
1 5

<210> 34
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<400> 34

Ala Gln Leu Arg Ala Val Ala Gly
1 5

<210> 35
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<400> 35

Ala Gln Leu Arg Ala Ile Ala Gly
1 5

<210> 36
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<400> 36

Ala Gln Leu Arg Ala Leu Ala Gly
1 5

<210> 37
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<400> 37

Ala Gln Leu Arg Ala Ala Gly Gly
1 5

<210> 38
<211> 8
<212> PRT
<213> Homo sapiens

<400> 38

Ala Gln Leu Arg Ala Ala Val Gly
1 5

<210> 39
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<400> 39

Ala Gln Leu Arg Ala Ala Ile Gly
1 5

<210> 40
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<212> PRT
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<400> 40

Ala Gln Leu Arg Ala Ala Leu Gly
1 5

<210> 41
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<212> PRT
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<400> 41

Ala Gln Leu Arg Ala Ala Ala Ala
1 5

<210> 42
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<400> 42

Ala Gln Leu Arg Ala Ala Ala Ile
1 5

<210> 43
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<400> 43

Ala Gln Leu Arg Ala Ala Ala Val
1 5

<210> 44
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<400> 44

Ala Gln Leu Arg Ala Ala Ala Leu
1 5

<210> 45
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<212> PRT
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<400> 45

Val Gly Gly Ala Leu Ala Ala Ala
1 5

<210> 46
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<400> 46

Gly Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 47
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<400> 47

Ile Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 48
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<400> 48

Leu Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 49
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<400> 49

Ala Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 50
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<400> 50

Val Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 51
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<400> 51

Val Pro Ile Ala Leu Ala Ala Ala
1 5

<210> 52
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<400> 52

Val Pro Leu Ala Leu Ala Ala Ala
1 5

<210> 53
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<400> 53

Val Pro Val Ala Leu Ala Ala Ala
1 5

<210> 54
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<400> 54

Val Pro Gly Ala Gly Ala Ala Ala
1 5

<210> 55
<211> 8
<212> PRT
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<400> 55

Val Pro Gly Ala Ile Ala Ala Ala
1 5

<210> 56
<211> 8
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<400> 56

Val Pro Gly Ala Ala Ala Ala Ala
1 5

<210> 57
<211> 8
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<400> 57

Val Pro Gly Ala Val Ala Ala Ala
1 5

<210> 58
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<400> 58

Val Pro Gly Ala Leu Gly Ala Ala
1 5

<210> 59
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<400> 59

Val Pro Gly Ala Leu Ile Ala Ala
1 5

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<400> 60

Val Pro Gly Ala Leu Leu Ala Ala
1 5

<210> 61
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<400> 61

Val Pro Gly Ala Leu Val Ala Ala
1 5

<210> 62
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<400> 62

Val Pro Gly Ala Leu Ala Gly Ala
1 5

<210> 63
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Val Pro Gly Ala Leu Ala Ile Ala
1 5

<210> 64
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<400> 64

Val Pro Gly Ala Leu Ala Leu Ala
1 5

<210> 65
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<400> 65

Val Pro Gly Ala Leu Ala Val Ala
1 5

<210> 66
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<212> PRT
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<400> 66

Val Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 67
<211> 8
<212> PRT
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<400> 67

Val Pro Gly Ala Leu Ala Ala Gly
1 5

<210> 68
<211> 8
<212> PRT
<213> Homo sapiens

<400> 68

Val Pro Gly Ala Leu Ala Ala Ile
1 5

<210> 69
<211> 8
<212> PRT
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<400> 69

Val Pro Gly Ala Leu Ala Ala Leu
1 5

<210> 70
<211> 8
<212> PRT
<213> Homo sapiens

<400> 70

Val Pro Gly Ala Leu Ala Ala Val
1 5

<210> 71
<211> 515
<212> PRT
<213> Homo sapiens

<400> 71

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Val Phe
1 5 10 15

Tyr Pro Gly Ala Gly Leu Gly Ala Leu Gly Gly Gly Ala Leu Gly Pro
20 25 30

Gly Gly Lys Pro Leu Lys Pro Val Pro Gly Gly Leu Ala Gly Ala Gly
35 40 45

Leu Gly Ala Gly Leu Gly Ala Phe Pro Ala Val Thr Phe Pro Gly Ala
50 55 60

Leu Val Pro Gly Gly Val Ala Asp Ala Ala Ala Tyr Lys Ala Ala
65 70 75 80

Lys Ala Gly Ala Gly Leu Gly Gly Val Pro Gly Val Gly Gly Leu Gly
85 90 95

Val Ser Ala Gly Ala Val Val Pro Gln Pro Gly Ala Gly Val Lys Pro
100 105 110

Gly Lys Val Pro Gly Val Gly Leu Pro Gly Val Tyr Pro Gly Gly Val
115 120 125

Leu Pro Gly Ala Arg Phe Pro Gly Val Gly Val Leu Pro Gly Val Pro
130 135 140

Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Val Gly Gly Ala Phe
145 150 155 160

Ala Gly Ile Pro Gly Val Gly Pro Phe Gly Gly Pro Gln Pro Gly Val
165 170 175

Pro Leu Gly Tyr Pro Ile Lys Ala Pro Lys Leu Pro Gly Gly Tyr Gly
 180 185 190

Leu Pro Tyr Thr Thr Gly Lys Leu Pro Tyr Gly Tyr Gly Pro Gly Gly
 195 200 205

Val Ala Gly Ala Ala Gly Lys Ala Gly Tyr Pro Thr Gly Thr Gly Val
 210 215 220

Gly Pro Gln Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Phe
 225 230 235 240

Gly Ala Gly Ala Ala Gly Val Leu Pro Gly Val Gly Gly Ala Gly Val
 245 250 255

Pro Gly Val Pro Gly Ala Ile Pro Gly Ile Gly Gly Ile Ala Gly Val
 260 265 270

Gly Thr Pro Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
 275 280 285

Lys Tyr Gly Ala Ala Ala Gly Leu Val Pro Gly Gly Pro Gly Phe Gly
 290 295 300

Pro Gly Val Val Gly Val Pro Gly Ala Gly Val Pro Gly Val Gly Val
 305 310 315 320

Pro Gly Ala Gly Ile Pro Val Val Pro Gly Ala Gly Ile Pro Gly Ala
 325 330 335

Ala Val Pro Gly Val Val Ser Pro Glu Ala Ala Ala Lys Ala Ala Ala
 340 345 350

Lys Ala Ala Lys Tyr Gly Ala Arg Pro Gly Val Gly Val Gly Gly Ile
 355 360 365

Pro Thr Tyr Gly Val Gly Ala Gly Gly Phe Pro Gly Phe Gly Val Gly
 370 375 380

Val Gly Gly Ile Pro Gly Val Ala Gly Val Pro Ser Val Gly Gly Val
 385 390 395 400

Pro Gly Val Gly Gly Val Pro Gly Val Gly Ile Ser Pro Glu Ala Gln
405 410 415

Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Val Gly Thr Pro Ala
420 425 430

Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Gln Phe Gly Leu Val
435 440 445

Pro Gly Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Val Gly
450 455 460

Val Ala Pro Gly Val Gly Leu Ala Pro Gly Val Gly Val Ala Pro Gly
465 470 475 480

Val Gly Val Ala Pro Gly Val Gly Val Ala Pro Gly Ile Gly Pro Gly
485 490 495

Gly Val Ala Ala Ala Lys Ser Ala Ala Lys Val Ala Ala Lys Ala
500 505 510

Gln Leu Arg
515

<210> 72
<211> 49
<212> PRT
<213> Homo sapiens

<400> 72

Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly Val Gly Val
1 5 10 15

Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly Leu Gly Val
20 25 30

Gly Ala Gly Val Pro Gly Phe Gly Ala Gly Ala Asp Glu Gly Val Arg
35 40 45

Arg

<210> 73
 <211> 171
 <212> PRT
 <213> Homo sapiens

<400> 73

Gly Val Arg Arg Ser Leu Ser Pro Glu Leu Arg Glu Gly Asp Pro Ser
 1 5 10 15

Ser Ser Gln His Leu Pro Ser Thr Pro Ser Ser Pro Arg Val Pro Gly
 20 25 30

Ala Leu Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly
 35 40 45

Val Leu Gly Gly Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly
 50 55 60

Val Val Gly Ala Gly Pro Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala
 65 70 75 80

Ala Lys Ala Ala Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly
 85 90 95

Leu Gly Val Gly Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly
 100 105 110

Ile Pro Pro Ala Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly
 115 120 125

Leu Gly Gly Val Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val
 130 135 140

Ala Ala Arg Pro Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala
 145 150 155 160

Cys Leu Gly Lys Ala Cys Gly Arg Lys Arg Lys
 165 170

<210> 74
 <211> 183
 <212> PRT

<213> Homo sapiens

<400> 74

Ala Ala Ala Gly Leu Gly Ala Gly Ile Pro Gly Leu Gly Val Gly Val
1 5 10 15

Gly Val Pro Gly Leu Gly Val Gly Ala Gly Val Pro Gly Leu Gly Val
20 25 30

Gly Ala Gly Val Pro Gly Phe Gly Ala Val Pro Gly Ala Leu Ala Ala
35 40 45

Ala Lys Ala Ala Lys Tyr Gly Ala Ala Val Pro Gly Val Leu Gly Gly
50 55 60

Leu Gly Ala Leu Gly Gly Val Gly Ile Pro Gly Gly Val Val Gly Ala
65 70 75 80

Gly Pro Ala Ala Ala Ala Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala
85 90 95

Gln Phe Gly Leu Val Gly Ala Ala Gly Leu Gly Gly Leu Gly Val Gly
100 105 110

Gly Leu Gly Val Pro Gly Val Gly Gly Leu Gly Gly Ile Pro Pro Ala
115 120 125

Ala Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala Gly Leu Gly Gly Val
130 135 140

Leu Gly Gly Ala Gly Gln Phe Pro Leu Gly Gly Val Ala Ala Arg Pro
145 150 155 160

Gly Phe Gly Leu Ser Pro Ile Phe Pro Gly Gly Ala Cys Leu Gly Lys
165 170 175

Ala Cys Gly Arg Lys Arg Lys
180

<210> 75

<211> 18

<212> PRT

<213> bovine tropoelastin

<400> 75

Val Pro Thr Gly Ala Gly Val Lys Pro Lys Ala Pro Gly Gly Gly Gly
1 5 10 15

Ala Phe

<210> 76

<211> 17

<212> PRT

<213> mouse tropoelastin

<400> 76

Val Pro Thr Gly Thr Gly Val Lys Ala Lys Ala Pro Gly Gly Gly Ala
1 5 10 15

Phe

<210> 77

<211> 18

<212> PRT

<213> bovine elastin

<400> 77

Val Pro Thr Gly Ala Gly Val Lys Pro Lys Ala Gln Val Gly Ala Gly
1 5 10 15

Ala Phe

<210> 78

<211> 16

<212> PRT

<213> rat tropoelastin

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Val Pro Thr Gly Thr Gly Val Lys Ala Lys Val Pro Gly Gly Gly Gly
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<210> 79

<211> 15

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Val Pro Thr Gly Thr Gly Ile Lys Ala Lys Gly Pro Gly Ala Gly
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<210> 80
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Lys Ala Ala Ala Lys Ala Gln Tyr Arg Ala Ala Ala Gly Leu Gly Ala
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Gly

<210> 81
<211> 17
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<400> 81

Lys Ala Ala Ala Lys Ala Gln Phe Arg Ala Ala Ala Gly Leu Pro Ala
1 5 10 15

Gly

<210> 82
<211> 20
<212> PRT
<213> Artificial

<220>
<223> tropoelastin consensus sequence

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> IS AN AROMATIC OR HYDROPHOBIC RESIDUE

<220>
<221> MISC_FEATURE

<222> (16)..(16)
<223> can be either Pro or Gly

<220>
<221> MISC_FEATURE
<222> (19)..(19)
<223> is a hydrophobic residue

<400> 82

Ala Lys Ala Ala Ala Lys Ala Gln Xaa Arg Ala Ala Ala Gly Leu Xaa
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Ala Gly Xaa Pro
20

<210> 83
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (7)..(8)
<223> there is a reduced peptide bond between Arg and Ala

<400> 83

Ala Ala Lys Ala Gln Leu Arg Ala Ala Ala Gly Leu Gly Ala
1 5 10

<210> 84
<211> 14
<212> PRT
<213> Homo sapiens

<220>
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<222> (7)..(8)
<223> there is a reduced peptide bond between Ala and Arg

<400> 84

Ala Gly Leu Gly Ala Ala Ala Arg Leu Gln Ala Lys Ala Ala
1 5 10

<210> 85
<211> 14
<212> PRT

<213> Homo sapiens

<400> 85

Ala Gly Leu Gly Ala Ala Ala Arg Leu Gln Ala Lys Ala Ala
1 5 10

<210> 86

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (4)..(5)

<223> there is a reduced peptide bond between Ala and Leu

<400> 86

Val Pro Gly Ala Leu Ala Ala Ala
1 5

<210> 87

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (4)..(5)

<223> there is a reduced peptide bond between Leu and Ala

<400> 87

Ala Ala Ala Leu Ala Gly Pro Val
1 5

<210> 88

<211> 8

<212> PRT

<213> Homo sapiens

<400> 88

Ala Ala Ala Leu Ala Gly Pro Val
1 5

<210> 89

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 <400> 90
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 <400> 91
 tgcacctaca acaccgcccg 20

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 <400> 92
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 <400> 93

tccaggtggc tacggtctgc

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<220>

<223> primer

<400> 94

gagtacctac gcctgcgata c

21

<210> 95

<211> 20

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 95

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<210> 96

<211> 20

<212> DNA

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<400> 96

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<223> primer

<400> 97

tgcacctaca acaccgcccg

20

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 gccaaactcag cttcctttcg 20

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 <400> 100
 taatacgact cactataggg 20

<210> 101
 <211> 15
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 Val Val Gly Ser Pro Ser Ala Gln Asp Glu Ala Ser Pro Leu Ser
 1 5 10 15

<210> 102
 <211> 10
 <212> PRT
 <213> Homo sapiens
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 Lys Ala Ala Ala Lys Ala Gly Ala Gly Leu
 1 5 10

<210> 103

<211> 12
<212> PRT
<213> Homo sapiens

<400> 103

Ala Leu Ala Ala Lys Ala Ala Lys Tyr Gly Ala Ala
1 5 10

<210> 104
<211> 11
<212> PRT
<213> Homo sapiens

<400> 104

Lys Ala Ala Gln Phe Gly Leu Val Pro Gly Val
1 5 10

<210> 105
<211> 18
<212> PRT
<213> Homo sapiens

<400> 105

Gly Gly Val Pro Gly Ala Ile Pro Gly Gly Val Pro Gly Gly Phe Tyr
1 5 10 15

Pro Gly

<210> 106
<211> 5
<212> PRT
<213> Homo sapiens

<400> 106

Arg Ala Ala Ala Gly
1 5